

CHAPTER 8

TURN LANES

Introduction Turn lanes are used in conjunction with Public Road Approaches **Type "C"** and **Type "D"**. These approaches are shown on Standard Sheets **PRAP**. The lengths of the tapers and the turn lanes are dependent upon the design speed of the mainline pavement and the angle of the intersection. The tables on the Standard Sheets are used to determine the required distances when the design speed and the horizontal angle of the approach are known. These distances are then measured from the station number given for the approach intersection.

After the required offsets are measured and marked, the radius points can then be set. Setting these radius points is discussed in detail in another section of this manual.

Driveways Driveways are shown on Standard Sheets **DRIV**. There are several types of drives which are listed below.

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| Class I | Private Drive, 6" concrete, 10' to 20' width |
| Class II | Private Drive, 4" bituminous, 12' to 24' width |
| Class III | Commercial Drive, 6" concrete, 20' to 40' width |
| Class IV | Commercial Drive 4" bituminous, 20' to 40' width |
| Class V | Field Entrance, (dirt), 24' minimum width |
| Class VI | Heavy Industrial and truck stops, bituminous, 6.5" minimum thickness, 32' to 50' width |
| Class VII | Heavy Industrial and truck stops, concrete, 6.5" minimum thickness, 32' to 50' width |

Using the class, station number and width of the drives as given in the approach table in the plans, the radius points can be set and the drives marked out as previously discussed.

Mailbox Approaches

Approaches for driveways and mailboxes are shown on Standard Sheet **MBAP**. There are three types of approaches:

1. **Mailbox only.**
2. **Mailbox in advance of the drive.**
3. **Mailbox beyond the drive.**

The width of the approach varies according to the traffic volume of the road. The low speed - low volume width is used only when the design speed is less than **40 MPH** and the **ADT** is less than **100**.

Normally approaches are a minimum of **8'** wide for **ADT** of less than **1500** and **10'** wide for **ADT** over **1500**.

Most bituminous resurface jobs have approach widths of **8'** maximum. On some older roads mailbox approaches may be as little as **2'** wide.

The required dimensions are given on the Standard Sheets. On new construction jobs the approaches can be marked out using the stations given in the approach table on the plans and the dimensions from the Standard Sheets. Adjustments may be necessary so that the approaches match the existing driveways. On resurface jobs, the stations for driveways and mailboxes are not given and they must be marked out to match what is existing in the field.